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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/832,929

DATE: 04/27/2001
TIME: 13:13:08

Input Set : A:\PF547SL.txt
Output Set: N:\CRF3\04272001\I832929.raw

3 <110> APPLICANT: Rosen, Craig A.
4 Haseltine, William A.
6 <120> TITLE OF INVENTION: Albumin Fusion Proteins
8 <130> FILE REFERENCE: PF547
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/832,929
11 <141> CURRENT FILING DATE: 2001-04-12
13 <150> PRIOR APPLICATION NUMBER: 60/229,358
14 <151> PRIOR FILING DATE: 2000-04-12
16 <150> PRIOR APPLICATION NUMBER: 60/256,931
17 <151> PRIOR FILING DATE: 2000-12-21
19 <150> PRIOR APPLICATION NUMBER: 60/199,384
20 <151> PRIOR FILING DATE: 2000-04-25
22 <160> NUMBER OF SEQ ID NOS: 72
24 <170> SOFTWARE: PatentIn Ver. 2.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 23
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <221> NAME/KEY: primer_bind
33 <223> OTHER INFORMATION: primer useful to clone human growth hormone cDNA
35 <400> SEQUENCE: 1
36 cccaagaatt cccttatcca ggc 23
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 33
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <221> NAME/KEY: primer_bind
46 <223> OTHER INFORMATION: primer useful to clone human growth hormone cDNA
48 <400> SEQUENCE: 2
49 ggaaagctta gaagccacag gatccctcca cag 33
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 16
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <221> NAME/KEY: misc_structure
59 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA fragments
60 with non-cohesive ends.
62 <400> SEQUENCE: 3
63 gataaagatt cccaac 16
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 17
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:

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72 <221> NAME/KEY: misc_structure
73 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA fragments
74 with non-cohesive ends.
76 <400> SEQUENCE: 4
77 aattgttggg aatcttt 17
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 17
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <221> NAME/KEY: misc_structure
87 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA fragments
88 with non-cohesive ends.
90 <400> SEQUENCE: 5
91 ttaggcttat tcccaac 17
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 18
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <221> NAME/KEY: misc_structure
101 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA fragments
102 with non-cohesive ends.
104 <400> SEQUENCE: 6 18
105 aattgttggg aataagcc
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 24
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <221> NAME/KEY: SITE
115 <222> LOCATION: 1)..(19)
116 <223> OTHER INFORMATION: invertase leader sequence
118 <220> FEATURE:
119 <221> NAME/KEY: SITE
120 <222> LOCATION: 20)..(24)
121 <223> OTHER INFORMATION: first 5 amino acids of mature human serum albumin
123 <400> SEQUENCE: 7
124 Met Leu Leu Gln Ala Phe Leu Phe Leu Leu Ala Gly Phe Ala Ala Lys
125 1 5 10 15
127 Ile Ser Ala Asp Ala His Lys Ser
128 20
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 21
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <221> NAME/KEY: misc_structure
138 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA

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139 fragments with non-cohesive ends.
141 <400> SEQUENCE: 8
142 gagatgcaca cctgagttag g 21
145 <210> SEQ ID NO: 9
146 <211> LENGTH: 27
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <221> NAME/KEY: misc_structure
152 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
153 fragments with non-cohesive ends.
155 <400> SEQUENCE: 9
156 gatcctgtgg cttcgatgca cacaaga 27
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 24
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <221> NAME/KEY: misc_structure
166 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
167 fragments with non-cohesive ends.
169 <400> SEQUENCE: 10
170 ctcttgtgtg catcgaagcc acag 24
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 30
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <221> NAME/KEY: misc_structure
180 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
181 fragments with non-cohesive ends.
183 <400> SEQUENCE: 11
184 tgtggaagag cctcagaatt tattcccaac 30
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 31
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <221> NAME/KEY: misc_structure
194 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
195 fragments with non-cohesive ends.
197 <400> SEQUENCE: 12
198 aattgttggg aataaattct gaggctttc c 31
201 <210> SEQ ID NO: 13
202 <211> LENGTH: 47
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <221> NAME/KEY: misc_structure

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208 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
209 fragments with non-cohesive ends.
211 <400> SEQUENCE: 13
212 ttaggcttag gtggcggtgg atccggcggt ggtggatctt tcccaac 47
215 <210> SEQ ID NO: 14
216 <211> LENGTH: 48
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <221> NAME/KEY: misc_structure
222 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
223 fragments with non-cohesive ends.
225 <400> SEQUENCE: 14
226 aattgttggg aaagatccac caccgcccga tccaccggca cctaagcc 48
229 <210> SEQ ID NO: 15
230 <211> LENGTH: 62
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <221> NAME/KEY: misc_structure
236 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
237 fragments with non-cohesive ends.
239 <400> SEQUENCE: 15
240 ttaggcttag gcgggtggatcttggc ggcggatctg gtggcggtgg atccttccca 60
241 ac 62
244 <210> SEQ ID NO: 16
245 <211> LENGTH: 63
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <221> NAME/KEY: misc_structure
251 <223> OTHER INFORMATION: synthetic oligonucleotide used to join DNA
252 fragments with non-cohesive ends.
254 <400> SEQUENCE: 16
255 aattgttggg aaggatccac cgccaccaga tccggcgcca ccagatccac caccgcctaa 60
256 gcc 63
259 <210> SEQ ID NO: 17
260 <211> LENGTH: 1782
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapiens
264 <220> FEATURE:
265 <221> NAME/KEY: CDS
266 <222> LOCATION: (1)..(1755)
269 <400> SEQUENCE: 17
270 gat gca cac aag agt gag gtt gct cat cgg ttt aaa gat ttg gga gaa 48
271 Asp Ala His Lys Ser Glu Val Ala His Arg Phe Lys Asp Leu Gly Glu
272 1 5 10 15
274 gaa aat ttc aaa gcc ttg gtg ttg att gcc ttt gct cag tat ctt cag 96
275 Glu Asn Phe Lys Ala Leu Val Ile Ala Phe Ala Gln Tyr Leu Gln

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276	20	25	30	
278	cag tgt cca ttt gaa gat cat gta aaa tta gtg aat gaa gta act gaa			144
279	Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu			
280	35	40	45	
282	ttt gca aaa aca tgt gtt gct gat gag tca gct gaa aat tgt gac aaa			192
283	Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys			
284	50	55	60	
286	tca ctt cat acc ctt ttt gga gac aaa tta tgc aca gtt gca act ctt			240
287	Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu			
288	65	70	75	80
290	cgt gaa acc tat ggt gaa atg gct gac tgc tgt gca aaa caa gaa cct			288
291	Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro			
292	85	90	95	
294	gag aga aat gaa tgc ttc ttg caa cac aaa gat gac aac cca aac ctc			336
295	Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu			
296	100	105	110	
298	ccc cga ttg gtg aga cca gag gtt gat gtg atg tgc act gct ttt cat			384
299	Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His			
300	115	120	125	
302	gac aat gaa gag aca ttt ttg aaa aaa tac tta tat gaa att gcc aga			432
303	Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg			
304	130	135	140	
306	aga cat cct tac ttt tat gcc ccg gaa ctc ctt ttc ttt gct aaa agg			480
307	Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg			
308	145	150	155	160
310	tat aaa gct gct ttt aca gaa tgt tgc caa gct gct gat aaa gct gcc			528
311	Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala			
312	165	170	175	
314	tgc ctg ttg cca aag ctc gat gaa ctt ccg gat gaa ggg aag gct tcg			576
315	Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser			
316	180	185	190	
318	tct gcc aaa cag aga ctc aaa tgt gcc agt ctc caa aaa ttt gga gaa			624
319	Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu			
320	195	200	205	
322	aqa gct ttc aaa gca tgg gca gtg gct cgc ctg agc cag aga ttt ccc			672
323	Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro			
324	210	215	220	
326	aaa gct gag ttt gca gaa gtt tcc aag tta gtg aca gat ctt acc aaa			720
327	Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys			
328	225	230	235	240
330	gtc cac acg gaa tgc tgc cat gga gat ctg ctt gaa tgt gct gat gac			768
331	Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp			
332	245	250	255	
334	agg gcg gac ctt gcc aag tat atc tgt gaa aat cag gat tcg atc tcc			816
335	Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser			
336	260	265	270	
338	agt aaa ctg aag gaa tgc tgt gaa aaa cct ctg ttg gaa aaa tcc cac			864
339	Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His			
340	275	280	285	

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/832,929

DATE: 04/27/2001
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Input Set : A:\PF547SL.txt
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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:634 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:639 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:644 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:649 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:654 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:659 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:664 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:669 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:674 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:679 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:684 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:689 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:694 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:699 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:704 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:723 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:728 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:733 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:738 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:743 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:748 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:753 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:758 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:763 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:768 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:773 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:778 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:783 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:788 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:793 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:812 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:817 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:822 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:827 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:832 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:837 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:842 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:847 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:852 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:857 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:862 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:867 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:872 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:877 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:882 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27

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L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:902 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:907 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:912 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:917 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:922 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33